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NEWS 2 AUG 10 Time limit for inactive STN sessions doubles to 40
minutes
NEWS 3 AUG 18 COMPENDEX indexing changed for the Corporate Source
(CS) field
NEWS 4 AUG 24 ENCOMPLIT/ENCOMPLIT2 reloaded and enhanced
NEWS 5 AUG 24 CA/Caplus enhanced with legal status information for
U.S. patents
NEWS 6 SEP 09 50 Millionth Unique Chemical Substance Recorded in
CAS REGISTRY
NEWS 7 SEP 11 WPIDS, WPINDEX, and WPIX now include Japanese FTERM
thesaurus
NEWS 8 OCT 21 Derwent World Patents Index Coverage of Indian and
Taiwanese Content Expanded
NEWS 9 OCT 21 Derwent World Patents Index enhanced with human
translated claims for Chinese Applications and
Utility Models
NEWS 10 NOV 23 Addition of SCAN format to selected STN databases
NEWS 11 NOV 23 Annual Reload of IFI Databases
NEWS 12 DEC 01 FRFULL Content and Search Enhancements
NEWS 13 DEC 01 DGENE, USGENE, and PCTGEN: new percent identity
feature for sorting BLAST answer sets
NEWS 14 DEC 02 Derwent World Patent Index: Japanese FI-TERM
thesaurus added
NEWS 15 DEC 02 PCTGEN enhanced with patent family and legal status
display data from INPADOCDB
NEWS 16 DEC 02 USGENE: Enhanced coverage of bibliographic and
sequence information
NEWS 17 DEC 21 New Indicator Identifies Multiple Basic Patent
Records Containing Equivalent Chemical Indexing
in CA/Caplus

NEWS EXPRESS MAY 26 09 CURRENT WINDOWS VERSION IS V8.4,
AND CURRENT DISCOVER FILE IS DATED 06 APRIL 2009.

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***** STN Columbus *****

FILE 'HOME' ENTERED AT 16:21:21 ON 09 JAN 2010

| => FILE REG | SINCE FILE | TOTAL |
|----------------------|------------|---------|
| COST IN U.S. DOLLARS | ENTRY | SESSION |
| FULL ESTIMATED COST | 0.22 | 0.22 |

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STRUCTURE FILE UPDATES: 8 JAN 2010 HIGHEST RN 1201769-11-0
DICTIONARY FILE UPDATES: 8 JAN 2010 HIGHEST RN 1201769-11-0

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TSCA INFORMATION NOW CURRENT THROUGH June 26, 2009.

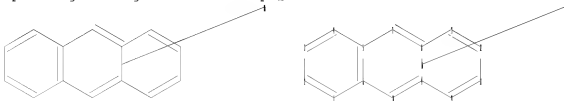
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<http://www.cas.org/support/stngen/stndoc/properties.html>

=>

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chain nodes :
15
ring nodes :
1 2 3 4 5 6 7 8 9 10 11 12 13 14
ring bonds :

10/580,552

01/09/2010

STN: SEARCH

1-2 1-6 2-3 3-4 4-5 5-6 5-7 6-10 7-8 8-9 8-11 9-10 9-14 11-12 12-13
13-14
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13-14

Match level :

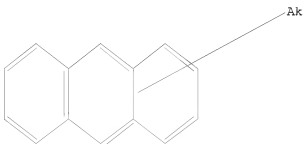
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11:Atom 12:Atom 13:Atom 14:Atom 15:CLASS 16:Atom

L1 STRUCTURE UPLOADED

=> D L1

L1 HAS NO ANSWERS

L1 STR



Structure attributes must be viewed using STN Express query preparation.

=> S L1 FULL

FULL SEARCH INITIATED 16:23:00 FILE 'REGISTRY'

FULL SCREEN SEARCH COMPLETED - 562821 TO ITERATE

100.0% PROCESSED 562821 ITERATIONS (3 INCOMPLETE) 38662 ANSWERS
SEARCH TIME: 00.00.14

L2 38662 SEA SSS FUL L1

=> FILE CAPLUS

COST IN U.S. DOLLARS

| SINCE FILE | TOTAL |
|------------|---------|
| ENTRY | SESSION |
| 193.01 | 193.23 |

FULL ESTIMATED COST

FILE 'CAPLUS' ENTERED AT 16:24:03 ON 09 JAN 2010

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FILE COVERS 1907 - 9 Jan 2010 VOL 152 ISS 3
FILE LAST UPDATED: 8 Jan 2010 (20100108/ED)
REVISED CLASS FIELDS (/NCL) LAST RELOADED: Oct 2009
USPTO MANUAL OF CLASSIFICATIONS THESAURUS ISSUE DATE: Oct 2009

CAPLUS now includes complete International Patent Classification (IPC) reclassification data for the third quarter of 2009.

CAS Information Use Policies apply and are available at:

<http://www.cas.org/legal/infopolicy.html>

This file contains CAS Registry Numbers for easy and accurate substance identification.

=> S L2
L3 32086 L2

=> S L3 AND BINDER
211249 BINDER
L4 193 L3 AND BINDER

=> S L4 AND PERMITIVITY
18 PERMITIVITY
L5 0 L4 AND PERMITIVITY

=> S L4 AND SEMICONDUCTING
33118 SEMICONDUCTING
L6 4 L4 AND SEMICONDUCTING

=> D L6 IBIB ABS HITSTR 1-4

L6 ANSWER 1 OF 4 CAPLUS COPYRIGHT 2010 ACS on STN
ACCESSION NUMBER: 2009:1589017 CAPLUS
DOCUMENT NUMBER: 152:57976
TITLE: Process for preparing substituted pentacenes
INVENTOR(S): Tierney, Steven; Heeney, Martin; Bailey, Clare; Zhang, Weimin
PATENT ASSIGNEE(S): Merck Patent GmbH, Germany
SOURCE: PCT Int. Appl., 48pp.
CODEN: PIXXD2
DOCUMENT TYPE: Patent
LANGUAGE: English
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

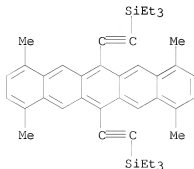
| PATENT NO. | KIND | DATE | APPLICATION NO. | DATE |
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| ----- | ---- | ----- | ----- | ----- |
| WO 2008128618 | A1 | 20081030 | WO 2008-EP2485 | 20080328 |

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 RW: AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HR, HU, IE, IS, IT, LT, LU, LV, MC, MT, NL, NO, PL, PT, RO, SE, SI, SK, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG, BW, GH, GM, KE, LS, MW, MZ, NA, SD, SL, SZ, TZ, UG, ZM, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM
 EP 2134725 A1 20091223 EP 2008-716713 20080328
 R: AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HR, HU, IE, IS, IT, LI, LT, LU, LV, MC, MT, NL, NO, PL, PT, RO, SE, SI, SK, TR

PRIORITY APPLN. INFO.:

EP 2007-7947 A 20070419
 WO 2008-EP2485 W 20080328

AB The invention relates to a process of preparing substituted pentacenes, to novel pentacenes prepared by this process, to the use of the novel pentacenes as semiconductors or charge transport materials in optical, electrooptical or electronic devices including field effect transistors (FETs), electroluminescent, photovoltaic and sensor devices, and to FETs and other semiconducting components or materials comprising the novel pentacenes. Thus, 1,4,8,11-tetramethyl-6,13-bis(triethylsilyl)ethynylpentacene was prepared and used as a semiconductor for an OFET device, showing high mobility and a high on/off ratio.
 IT 1173698-76-4P, 1,4,8,11-Tetramethyl-6,13-bis(triethylsilyl)ethynylpentacene
 RL: IMF (Industrial manufacture); TEM (Technical or engineered material use); PREP (Preparation); USES (Uses)
 (process for preparing substituted pentacenes d as semiconductors or charge transport materials in optical, electrooptical or electronic devices)
 RN 1173698-76-4 CAPLUS
 CN Pentacene, 1,4,8,11-tetramethyl-6,13-bis[2-(triethylsilyl)ethynyl]- (CA INDEX NAME)

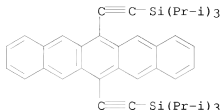


REFERENCE COUNT: 1 THERE ARE 1 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L6 ANSWER 2 OF 4 CAPLUS COPYRIGHT 2010 ACS on STN

ACCESSION NUMBER: 2007:816621 CAPLUS
 DOCUMENT NUMBER: 147:224628
 TITLE: Electronic short channel device comprising an organic semiconductor formulation
 INVENTOR(S): Ogier, Simon Dominic; Veres, Janos; Zeidan, Munther
 PATENT ASSIGNEE(S): Merck Patent G.m.b.H., Germany
 SOURCE: PCT Int. Appl., 46pp.
 CODEN: PIXXD2
 DOCUMENT TYPE: Patent
 LANGUAGE: English
 FAMILY ACC. NUM. COUNT: 1
 PATENT INFORMATION:

| PATENT NO. | KIND | DATE | APPLICATION NO. | DATE |
|------------------------|--|----------|----------------------|------------|
| WO 2007082584 | A1 | 20070726 | WO 2006-EP12300 | 20061220 |
| W: | AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, GT, HN, HR, HU, ID, IL, IN, IS, JP, KE, KG, KM, KN, KP, KR, KZ, LA, LC, LK, LR, LS, LT, LU, LV, LY, MA, MD, MG, MK, MN, MW, MX, MY, MZ, NA, NG, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RS, RU, SC, SD, SE, SG, SK, SL, SM, SV, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, ZA, ZM, ZW | | | |
| RW: | AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IS, IT, LT, LU, LV, MC, NL, PL, PT, RO, SE, SI, SK, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG, BW, GH, GM, KE, LS, MW, MZ, NA, SD, SL, SZ, TZ, UG, ZM, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM | | | |
| EP 1974401 | A1 | 20081001 | EP 2006-841047 | 20061220 |
| R: | AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IS, IT, LI, LT, LU, LV, MC, NL, PL, PT, RO, SE, SI, SK, TR | | | |
| GB 2449023 | A | 20081105 | GB 2008-15037 | 20061220 |
| DE 112006003179 | T5 | 20090115 | DE 2006-112006003179 | 20061220 |
| JP 2009524226 | T | 20090625 | JP 2008-550646 | 20061220 |
| CN 101361205 | A | 20090204 | CN 2006-80051140 | 20080715 |
| KR 2008096781 | A | 20081103 | KR 2008-720354 | 20080820 |
| PRIORITY APPLN. INFO.: | | | EP 2006-1282 | A 20060121 |
| | | | WO 2006-EP12300 | W 20061220 |
| AB | The invention relates to an improved electronic device, like an organic field emission transistor (OFET), which has a short source to drain channel length and contains an organic semiconducting formulation comprising a semiconducting binder. | | | |
| IT | 373596-08-8 RL: PRP (Properties); TEM (Technical or engineered material use); USES (Uses) (electronic short channel device comprising an organic semiconductor formulation in organic field emission transistors) | | | |
| RN | 373596-08-8 CAPLUS | | | |
| CN | Pentacene, 6,13-bis[2-[tris(1-methylethyl)silyl]ethynyl]- (CA INDEX NAME) | | | |



OS.CITING REF COUNT: 2 THERE ARE 2 CAPLUS RECORDS THAT CITE THIS RECORD
(2 CITINGS)
REFERENCE COUNT: 6 THERE ARE 6 CITED REFERENCES AVAILABLE FOR THIS
RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L6 ANSWER 3 OF 4 CAPLUS COPYRIGHT 2010 ACS on STN

ACCESSION NUMBER: 2006:437554 CAPLUS

DOCUMENT NUMBER: 144:479184

TITLE: Process for making an organic field effect transistor
with areas of reduced carrier mobility

INVENTOR(S): Brown, Beverley Anne; Veres, Janos; Ogier, Simon
Dominic

PATENT ASSIGNEE(S): Merck Patent G.m.b.H., Germany

SOURCE: PCT Int. Appl., 24 pp.

CODEN: PIXXD2

DOCUMENT TYPE: Patent

LANGUAGE: English

FAMILY ACC. NUM. COUNT: 1

PATENT INFORMATION:

| PATENT NO. | KIND | DATE | APPLICATION NO. | DATE |
|------------------------|--|----------|-----------------|------------|
| WO 2006048092 | A1 | 20060511 | WO 2005-EP10661 | 20051004 |
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| RW: | AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IS, IT, LT, LU, LV, MC, NL, PL, PT, RO, SE, SI, SK, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG, BW, GH, GM, KE, LS, MW, MZ, NA, SD, SL, SZ, TZ, UG, ZM, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM | | | |
| EP 1807884 | A1 | 20070718 | EP 2005-790320 | 20051004 |
| EP 1807884 | B1 | 20080702 | | |
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| JP 2008519445 | T | 20080605 | JP 2007-539481 | 20051004 |
| AT 400067 | T | 20080715 | AT 2005-790320 | 20051004 |
| KR 2007083921 | A | 20070824 | KR 2007-710026 | 20070502 |
| US 20070259477 | A1 | 20071108 | US 2007-666751 | 20070502 |
| PRIORITY APPLN. INFO.: | | | GB 2004-24342 | A 20041103 |
| | | | WO 2005-EP10661 | W 20051004 |

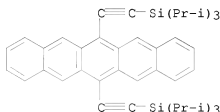
ASSIGNMENT HISTORY FOR US PATENT AVAILABLE IN LSUS DISPLAY FORMAT

AB The present invention relates to a process for reducing the mobility of an organic semiconductor (OSC) layer in an electronic device having a semiconducting channel area. The mobility of the OSC is reduced in specific areas outside the channel area by applying an oxidizing agent to the OSC layer.

IT 373596-08-8
 RL: DEV (Device component use); USES (Uses)
 (organic semiconductor layer; process for making an organic field effect transistor with areas of reduced carrier mobility)

RN 373596-08-8 CAPLUS

CN Pentacene, 6,13-bis[2-[tris(1-methylethyl)silyl]ethynyl]- (CA INDEX NAME)



REFERENCE COUNT: 4 THERE ARE 4 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L6 ANSWER 4 OF 4 CAPLUS COPYRIGHT 2010 ACS on STN

ACCESSION NUMBER: 2005:523782 CAPLUS

DOCUMENT NUMBER: 143:69829

TITLE: Improvements in and relating to organic semiconducting layers

INVENTOR(S): Brown, Beverley Anne; Veres, Janos; Anemian, Remi Manouk; Williams, Richard Thomas; Ogier, Simon Dominic; Leeming, Stephen William

PATENT ASSIGNEE(S): Avecia Limited, UK

SOURCE: PCT Int. Appl., 68 pp.

CODEN: PIXXD2

DOCUMENT TYPE: Patent

LANGUAGE: English

FAMILY ACC. NUM. COUNT: 1

PATENT INFORMATION:

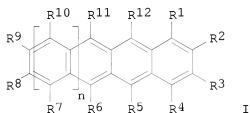
| PATENT NO. | KIND | DATE | APPLICATION NO. | DATE |
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| WO 2005055248 | A2 | 20050616 | WO 2004-GB4973 | 20041125 |
| WO 2005055248 | A3 | 20050728 | | |
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| EP 1687830 | A2 | 20060809 | EP 2004-819715 | 20041125 |
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| IE, SI, FI, RO, CY, TR, BG, CZ, EE, HU, PL, SK, IS | | | | |
| EP 1783781 | A2 | 20070509 | EP 2007-2498 | 20041125 |
| EP 1783781 | A3 | 20071003 | | |
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| JP 2007519227 | T | 20070712 | JP 2006-540612 | 20041125 |
| EP 1808866 | A1 | 20070718 | EP 2007-4534 | 20041125 |
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| IS, IT, LI, LU, MC, NL, PL, PT, RO, SE, SI, SK, TR | | | | |
| KR 2006110309 | A | 20061024 | KR 2006-710374 | 20060526 |
| US 20070102696 | A1 | 20070510 | US 2006-580552 | 20060526 |
| US 20070137520 | A1 | 20070621 | US 2007-671877 | 20070206 |
| US 20080009625 | A1 | 20080110 | US 2007-822594 | 20070709 |
| US 7576208 | B2 | 20090818 | | |
| PRIORITY APPLN. INFO.: | | | | |
| | | | GB 2003-27654 | A 20031128 |
| | | | GB 2004-7852 | A 20040407 |
| | | | GB 2004-14347 | A 20040626 |
| | | | EP 2004-819715 | A3 20041125 |
| | | | WO 2004-GB4973 | W 20041125 |
| | | | US 2006-580552 | A3 20060526 |

ASSIGNMENT HISTORY FOR US PATENT AVAILABLE IN LSUS DISPLAY FORMAT

OTHER SOURCE(S): MARPAT 143:69829

GI



AB An organic semiconducting layer formulation (I), which comprises: an organic binder which has a permittivity, ϵ , at 1,000 Hz of 3.3 or less; and a polyacene compound of Formula A: wherein: each of R1, R2, R3, R4, R5, R6, R7, R8, R9, R10, R11 and R12, which may be the same or different, independently represents hydrogen; an optionally substituted C1-C40 carbonyl or hydrocarbyl group; an optionally substituted C1-C40 alkoxy group; an optionally substituted C6-C40 aryloxy group; an optionally substituted C7-C40 alkylaryloxy group; an optionally substituted C2-C40 alkoxycarbonyl group; an optionally substituted C7-C40 aryloxy carbonyl group; a cyano group (-CN); a carbamoyl group (-C(=O)NH2); a haloformyl group (-C(=O)-X, wherein X represents a halogen atom); a formyl group (-C(=O)-H); an isocyanate group; an isocyanate group; a thiocyanate group or a thioisocyanate group; an optionally substituted amino group; a hydroxy group. A nitro group; a CF3 group; a halo group (Cl, Br, F); or an optionally substituted silyl group; and wherein independently each pair of R2 and R3 and/or R8 and R9, may be cross-bridged to form a C4-C40 saturated or unsatd. ring, which saturated or unsatd. ring may be intervened by an oxygen atom, a sulfur atom or a group shown by formula -N(Ra)- (wherein Ra is a hydrogen atom or an optionally

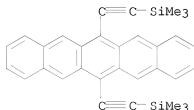
substituted hydrocarbon group), or may optionally be substituted; and wherein one or more of the carbon atoms of the polyacene skeleton may optionally be substituted by a heteroatom selected from N, P, As, O, S, Se and Te; and wherein independently any two or more of the substituents R1-R12 which are located on adjacent ring positions of the polyacene may, together, optionally constitute a further C4-C40 saturated or unsatd. ring optionally interrupted by O, S or -N(Ra) where Ra is as defined above or an aromatic ring system, fused to the polyacene; and wherein n is 0, 1, 2, 3 or 4, also claimed is an electronic device, particularly.

IT 317809-68-0 373596-08-8 373596-09-9
 398128-81-9 775324-33-9 775324-34-0
 854519-90-7 854519-91-8 854519-92-9
 854519-95-2 854519-96-3 854520-00-6

RL: DEV (Device component use); USES (Uses)
 (improvements in and relating to organic semiconducting layers
 for organic FETs)

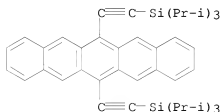
RN 317809-68-0 CAPLUS

CN Pentacene, 6,13-bis[2-(trimethylsilyl)ethynyl]- (CA INDEX NAME)



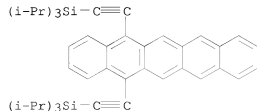
RN 373596-08-8 CAPLUS

CN Pentacene, 6,13-bis[2-[tris(1-methylethyl)silyl]ethynyl]- (CA INDEX NAME)

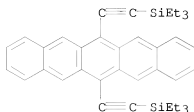


RN 373596-09-9 CAPLUS

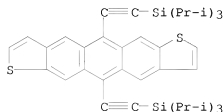
CN Pentacene, 5,14-bis[2-[tris(1-methylethyl)silyl]ethynyl]- (CA INDEX NAME)



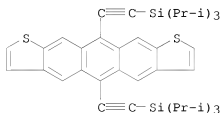
RN 398128-81-9 CAPLUS
CN Pentacene, 6,13-bis[2-(triethylsilyl)ethynyl]- (CA INDEX NAME)



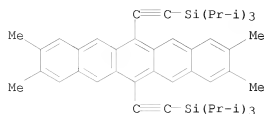
RN 775324-33-9 CAPLUS
CN Anthra[2,3-b:6,7-b']dithiophene, 5,11-bis[2-[tris(1-methylethyl)silyl]ethynyl]- (CA INDEX NAME)



RN 775324-34-0 CAPLUS
CN Silane, (anthra[2,3-b:7,6-b']dithiophene-5,11-diyl-di-2,1-ethynediyl)bis[tris(1-methylethyl)- (9CI) (CA INDEX NAME)

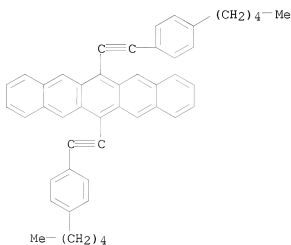


RN 854519-90-7 CAPLUS
CN Pentacene, 2,3,9,10-tetramethyl-6,13-bis[2-[tris(1-methylethyl)silyl]ethynyl]- (CA INDEX NAME)



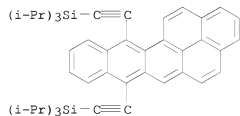
RN 854519-91-8 CAPLUS

CN Pentacene, 6,13-bis[2-(4-pentylphenyl)ethynyl]- (CA INDEX NAME)



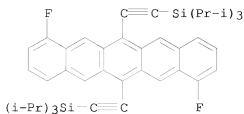
RN 854519-92-9 CAPLUS

CN Dibenzo[1,pqr]benz[a]anthracene, 7,12-bis[2-[tris(1-methylethyl)silyl]ethynyl]- (CA INDEX NAME)

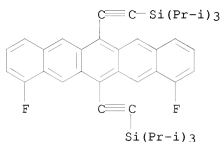


RN 854519-95-2 CAPLUS

CN Pentacene, 1,8-difluoro-6,13-bis[2-[tris(1-methylethyl)silyl]ethynyl]- (CA INDEX NAME)

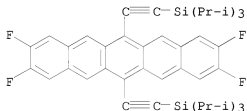


RN 854519-96-3 CAPLUS

CN Pentacene, 1,11-difluoro-6,13-bis[2-(tris(1-methylethyl)silyl)ethynyl]-
(CA INDEX NAME)

RN 854520-00-6 CAPLUS

CN Pentacene, 2,3,9,10-tetrafluoro-6,13-bis[2-(tris(1-methylethyl)silyl)ethynyl]- (CA INDEX NAME)

OS.CITING REF COUNT: 11 THERE ARE 11 CAPLUS RECORDS THAT CITE THIS
RECORD (12 CITINGS)REFERENCE COUNT: 2 THERE ARE 2 CITED REFERENCES AVAILABLE FOR THIS
RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

=>

---Logging off of STN---

=>

Executing the logoff script...

=> LOG Y

| | | |
|--|------------|---------|
| COST IN U.S. DOLLARS | SINCE FILE | TOTAL |
| | ENTRY | SESSION |
| FULL ESTIMATED COST | 34.17 | 227.40 |
| DISCOUNT AMOUNTS (FOR QUALIFYING ACCOUNTS) | SINCE FILE | TOTAL |
| | ENTRY | SESSION |
| CA SUBSCRIBER PRICE | -3.40 | -3.40 |

STN INTERNATIONAL LOGOFF AT 16:28:35 ON 09 JAN 2010